

ADDENDUM NO. 3

Date October 7, 2021

City of Austin

Project Name Hornsby Bend BMP Centrifuges

C.I.P. No. 3164.077 IFB No.: 6100 CLMC872

This Addendum forms a part of the Contract and corrects or modifies original Bid Documents, issued on September 6, 2021. **Acknowledge receipt of this addendum in space provided on bid form.** Failure to do so may subject bidder to disqualification.

A. Project Manual Revisions:

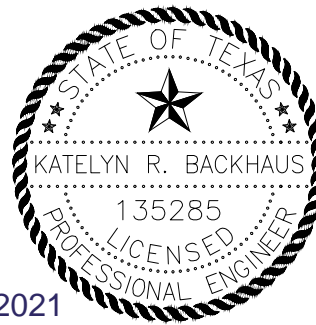
- **Table of Contents:** Remove Table of Contents in its entirety and replace with the attached Table of Contents.
- **Section 00300L:** In ALLOWANCES table, delete "\$177,000.00" and replace with: "\$117,000.00."
- **Section 11216:** Add the following before the end of the first sentence of 1.05.A: "or certified pump manufacturer's representative."
- **Section 11216:** Remove Paragraph 2.04.A and replace with the following: "A. Motors shall have WP1 enclosures of solid shaft type and four (4) piece coupling. Motors shall be 460 volt, 3 phase, 60 hertz, and conform to all requirements of Division 16."
- **Section 16020:** Remove Paragraph 1.01.B.3.
- **Section 16020:** Remove Paragraph 1.01.B.4.

B. Drawing Revisions:

- 1) **Drawing S-3:** Remove sheet in its entirety and replace with the attached sheet S-3.
- 2) **Drawing S-6:** Remove sheet in its entirety and replace with the attached sheet S-6.
- 3) **Drawing M-6:** Delete text of NOTE BY SYMBOL 6 and replace with the following: "PROP 6" FLANGED CLOW VALVE STYLE 1106 WITH OUTSIDE WEIGHT AND LEVER."
- 4) **Drawing E-5:** Remove sheet in its entirety and replace with the attached E-5.
- 5) **Drawing E-6:** Remove sheet in its entirety and replace with the attached E-6.
- 6) **Drawing E-22:** Remove sheet in its entirety and replace with the attached E-22.
- 7) **Drawing E-25:** Remove sheet in its entirety and replace with the attached E-25.

This addendum consists of 14 page(s)/sheet(s).

Approved by OWNER



Katelyn R. Backhaus

10/7/2021

Approved by ENGINEER/ARCHITECT (as applicable per license requirements)

END

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Document Number Date Title
VOLUME 1

07/19/2021 Table of Contents
 05/26/21 Seal Sheets

BIDDING REQUIREMENTS, CONTRACT FORMS, & CONDITIONS OF THE CONTRACT

00020	05/10/2021	Invitation for Bids
00100	05/10/2021	Instructions to Bidders
00220	03/30/18	Geotechnical Data
00300L	05/10/2021	Bid Form-Lump Sum
	04/03/2020	Total Bid Form
00400	04/30/19	Statement of Bidder's Experience
00405	03/30/18	Certificate of Non-Suspension or Debarment
00410	09/17/18	Statement of Bidder's Safety Experience
00440	09/02/2021	Prohibited Activities
00500	02/04/2020	Agreement (SAMPLE)
00610	02/04/2020	Performance Bond
00620	02/04/2020	Payment Bond
00630	10/22/19	Non-Discrimination and Non-Retaliation Certificate
00631	03/30/18	Title VI Assurances Appendix A
00632	03/30/18	Title VI Assurances Appendix E
00650	06/08/18	Certificate of Insurance
00670	01/11/19	Sales Tax Exemption Certificate
00680	03/30/18	Non-Use of Asbestos Affidavit (Prior to Construction)
00681	03/30/18	Non-Use of Asbestos Affidavit (After Construction)
00700	12/04/2020	General Conditions
00810	05/10/2021	Supplemental General Conditions
00819	03/07/17	Security Requirements
SP1070	10/24/19	Facility Security Procedure for Contractors
00820	03/30/18	Modifications to Bidding Requirements and Contract Forms
00830	02/04/2020	Wage Rates and Payroll Reporting
00830BC	05/17/2021	Wage Rates Building Construction Trades
00830HH	01/11/2021	Wage Rates Highway Heavy
00840	05/10/2021	Construction Training Program Requirements
00900	05/10/2021	Addendum (SAMPLE)

SPECIFICATIONS**Division 1 - General Requirements**

01010	08/28/2020	Summary of Work
01015	05/26/21	Construction Coordination and Sequencing
01020	03/30/18	Allowances
01025	09/17/18	Measurement and Payment Lump Sum Contracts
01030	03/30/18	Alternates
01050	10/19/15	Grades Lines & Levels
01095	07/21/03	Reference Standards and Definitions
01096	05/06/11	Stormwater Pollution Prevention Plan (SWPPP)
01200	08/09/12	Project Meetings
01300	01/11/19	Submittals
01310	04/19/10	Schedules and Reports
01352	06/29/18	Sustainable Construction Requirements
01353	04/29/2020	Construction Equipment Emissions Reduction Plan
01380	08/09/12	Construction Photography & Videos
01400	03/29/10	Quality Control Services
01500	08/28/2020	Temporary Facilities
01505	08/12/19	Construction and Demolition Waste Management
01510	06/29/18	Construction Indoor Air Quality Management Plan
01550	08/09/12	Public Safety and Convenience
01600	05/13/10	Materials and Equipment
01650	04/09/17	Equipment Testing and Facilities Startup
01670	04/05/21	Training
01700	12/19/11	Contract Closeout
01710	12/19/11	Final Cleaning
01720	01/04/2017	As-Built Drawings
01730	01/04/17	Operation and Maintenance Data
01900	03/12/12	Prohibition of Asbestos Containing Materials
01900a	06/05/06	Statement of Non-Inclusion of Asbestos Containing Material (E/A Prior to Design)
01900b	06/05/06	Statement of Non-Inclusion of Asbestos Containing Material (E/A After Design)

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Series 400 – Concrete and Structures

401S 09/26/12 Structural Excavation and Backfill
 402S 11/13/07 Controlled Low Strength Material
 403S 09/26/12 Concrete for Structures
 405S 11/13/07 Concrete Admixtures
 406S 09/26/12 Reinforcing Steel
 408S 11/13/07 Concrete Joint Materials
 409S 11/13/07 Membrane Curing
 410S 09/26/12 Concrete Structures
 411S 11/13/07 Surface Finishes for Concrete
 413S 11/13/07 Cleaning and/or Sealing Joints & Cracks (PC Concrete)
 416S 11/13/07 Waterstops
 433S 12/09/08 P.C. Concrete Driveways

Series 500 – Pipe and Appurtenances

509S 09/26/12 Excavation Safety Systems
 510 10/03/13 Pipe
 511S 09/26/12 Water Valves

Series 600 – Environmental Enhancement

601S 11/14/16 Salvaging and Placing Topsoil
 604S 01/04/16 Seeding for Erosion Control
 606S 06/21/07 Fertilizer
 609S 01/04/16 Native Grassland Seeding and Planting for Erosion Control
 628S 12/31/13 Sediment Containment Dikes
 639S 08/18/10 Rock Berm
 641S 06/21/07 Stabilized Construction Entrance
 642S 09/01/11 Silt Fence

Series 700 – Incidental Construction

700S 09/26/12 Mobilization
 720S 09/26/12 Metal for Structures
 721S 09/26/12 Steel Structures
 722S 09/26/12 Protective Coatings
 723 09/26/12 Structural Welding
 725S 09/26/12 Survey Markers

Series 800 – Urban Transportation

803S 11/15/11 Barricades, Signs, and Traffic Handling
 824S 02/24/10 Traffic Signs

Special Provisions to City Standard Technical Specifications

SP401S 05/26/21 Structural Excavation and Backfill
 SP403S 05/26/21 Concrete for Structures
 SP406S 05/26/21 Reinforcing Steel
 SP410S 05/26/21 Concrete Structures

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SP509S	12/13/2016	Excavation Safety System
SP510	05/26/21	Pipe
SP511S	05/26/21	Water Valves
SP720S	05/26/21	Metal for Structures
SP722S	05/26/21	Protective Coatings

VOLUME 3 – Special Specifications

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Division 2 – Site Work

02050	05/26/21	FEB Sludge Removal, Cleaning and Inspection (Alternate)
02060	05/26/21	Pressure Washing for Cleaning (Alternate)
02732	04/05/21	Selective Demolition

Division 3 – Concrete

03600	05/26/21	Grout
03740	05/26/21	Concrete Repair and Modifications

Division 4 – Masonry

04200	04/05/21	Unit Masonry
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Division 5 – Metals

05051	05/26/21	Anchor Bolts
05500	05/26/21	Miscellaneous Metal Fabrications
05521	05/26/21	Metal Railings
05530	05/26/21	Metal Gratings and Cover Plates
05540	05/26/21	Metal Ladders, Platforms & Stairs

Division 6 – Wood and Plastics

06500	05/26/21	Fiberglass Reinforced Plastics & Fabrications
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Division 7 – Thermal and Moisture Protection

07115	04/05/21	Bituminous Dampproofing
07620	04/05/21	Sheet Metal Flashing and Trim
07920	04/05/21	Joint Sealants

Division 8 – Doors and Windows

08330	04/05/21	Rolling Service Doors
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Division 9 – Finishes

09220	04/05/21	Portland Cement Plastering
09900	05/26/21	Painting
09911	04/05/21	Exterior Architectural Painting
09912	04/05/21	Interior Architectural Painting

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11100	05/26/21	Pumps, General
11216	05/26/21	Vertical Turbine Pumps – Wet Pit
11313	05/26/21	Pumping Unit Testing
11314	05/26/21	Noise Requirements and Control
11318	05/26/21	Progressive Cavity Pumps
11323	05/26/21	Rotary Lobe Pumps
11330	05/26/21	Macerators
11361	05/26/21	Centrifuge Thickening Equipment

Division 15 – Mechanical

15000	05/26/21	Special Conditions for Mechanical Work
15047	05/26/21	Mechanical Identification
15107	05/26/21	Surge Anticipator and Pressure Relief Valves
15120	05/26/21	Piping Specialties
15140	05/26/21	Supports and Hangers
15204	05/26/21	Electric Valve Operators
15256	05/26/21	Insulation and Heat Tracing
15500	04/05/21	HVAC – General Provisions
15891	04/05/21	HVAC – Non-Metal Ductwork and Accessories
15990	04/05/21	HVAC – Testing, Adjusting and Balancing

Division 16 – Electrical

16010	05/26/21	Electrical General Provisions
16012	05/26/21	Identifications
16020	05/26/21	Utilities
16060	05/26/21	Acceptance Testing and Calibration
16110	05/26/21	Raceways, Fittings and Supports
16140	05/26/21	Wiring Devices
16150	05/26/21	NEMA Frame Induction Motors, 600V and Below
16191	05/26/21	Miscellaneous Equipment
16200	05/26/21	Wires, Conductors and Cable – 600V and Below
16205	05/26/21	Wire and Cable Tagging
16289	05/26/21	Surge Protective Devices
16440	05/26/21	Disconnect Switches and Enclosed Circuit Breakers
16441	05/26/21	Switchboards
16441.10	08/27/21	Enclosed Service Entrance Circuit Breakers
16450	05/26/21	Grounding
16470	05/26/21	Panelboards
16480	05/26/21	Motor Control Center
16485	05/26/21	Electrical Systems Analysis
16700	05/26/21	Common Control Panel Requirements for Equipment

Division 17 – Instrumentation

17000	05/26/21	Instrumentation General Provisions
17300	05/26/21	Programmable Logic Controller (PLC) Requirements
17315	05/26/21	PLC Network Requirements
17325	05/26/21	Uninterruptible Power Supply
17400	05/26/21	Instrument Panels
17520	05/26/21	Instruments
17600	05/26/21	System Configuration
17910	05/26/21	PLC Input Output List

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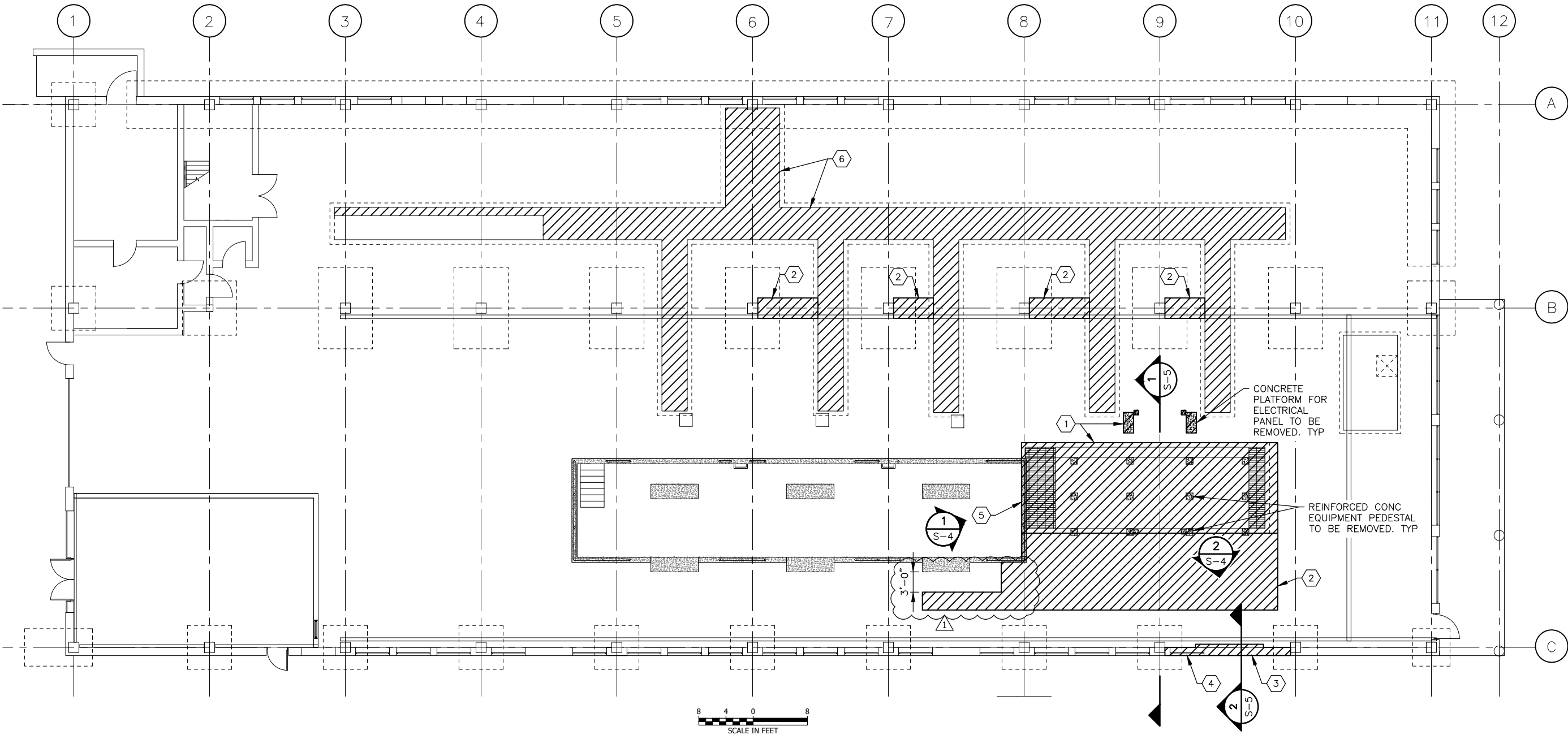
17920 05/26/21 Control Narrative

VOLUME 4 – MBE/WBE Procurement Program Package

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08/2019 MBE/WBE Procurement Program Package

END

REFERENCES: CPY Standard Border Base.dwg _S14 ENVRO SEALS.dwg AUST1600646.01_E_SBases.dwg AUST1600646.01_E_ABases.dwg AUST1600646.01_P_SBases.dwg AUST1600646.01_E_JBases.dwg
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GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL ITEMS TO BE SALVAGED AND RETURNED TO OWNER PRIOR TO DEMOLITION. EXISTING GBT ACCESS STAIRS AND HANDRAILS TO BE SALVAGED AND RETURNED TO OWNER.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.
3. SEE ARCHITECTURAL, HVAC, MECHANICAL AND ELECTRICAL SHEETS FOR INFORMATION NOT SHOWN.
4. ALL CONCRETE DEMOLITION SHALL BE PER SPECIAL SPECIFICATION 03740.

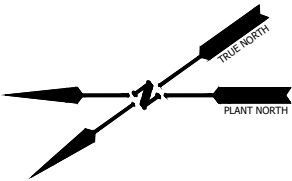
LEGEND

ITEMS TO BE DEMOLISHED



NOTES BY SYMBOL (X)

1. DEMO EXISTING TRENCH, GRATE AND GBT FOUNDATIONS.
2. DEMO EXISTING SLAB AND SUBGRADE. COORDINATE WITH PROPOSED DRAWINGS. REFER TO MECH'L FOR DEMOLITION OF EXISTING PIPING/EQUIPMENT.
3. DEMO EXISTING MASONRY, SEE ARCHITECTURAL DRAWINGS FOR EXTENTS AND DETAILS.
4. DEMO EXISTING WINDOW, SEE ARCHITECTURAL DRAWINGS AND S-4 FOR MORE INFORMATION.
5. DEMO SOUTH WALL OF EXISTING CENTRIFUGE TRENCH. SEE PHOTO 1 SHEET S-4.
6. DEMO ALUM GRATING.



NO.	REVISION	BY	DATE
1	ADDENDUM NO. 3	CJP	10/01/21

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE.

CITY OF AUSTIN - AUSTIN WATER
HORNSBY BEND BMP CENTRIFUGES
STRUCTURAL DEMOLITION PLAN I

Date:	MAY 2021
Designed:	C.POTTER
Drawn:	P.VILLARREAL
Reviewed:	J.WOUTERS

CP&Y Proj. AUST1600646.01

SHEET

S-3

CONDUIT TAG	CONDUIT SIZE	CONDUCTOR SIZE	ROUTING		COMMENT
			FROM	to	
UTIL01-01P	4"	8 (4-500KCM, 1-#4/0G), 2-SPARE	TRANSFORMER UTIL01	MCCT5	
UTIL02-01P	4"	8 (4-500KCM, 1-#4/0G), 2-SPARE	TRANSFORMER UTIL02	MCCT5	
GEN-01P	4"	2 SETS OF 4-500KCM, 1#1G	GENERATOR TERMINATION BOX	MCCT5	
MCCT5-MCCT6-01P	4"	2 SETS OF 4-500KCM, 1-#3/0G	MCC-T5	MCC-T6	
MCCT5-MCCT6-02P	4"	2 SETS OF 4-500KCM, 1-#3/0G	MCC-T5	MCC-T6	
MCCT5-MCP-100-03P	4" (EXISTING)	2 SETS OF 3-350KCM, 1-#1G	MCC-T5	CENTRIFUGE 1 MOTOR STARTER PANEL HB-TC-MCP-100	NEW CONDUCTORS, EXISTING CONDUIT
MCCT5-MCP-200-03P	4" (EXISTING)	2 SETS OF 3-350KCM, 1-#1G	MCC-T5	CENTRIFUGE 2 MOTOR STARTER PANEL HB-TC-MCP-200	NEW CONDUCTORS, EXISTING CONDUIT
HB-TC-MCP-100-01P	3"	3-250MCM, 1#2G	CENTRIFUGE 1 MOTOR STARTER PANEL	CENTRIFUGE 1 SCROLL DRIVE	
HB-TC-MCP-100-02P	1-1/2"	3#8, 1#8G	CENTRIFUGE 1 MOTOR STARTER PANEL	CENTRIFUGE 1 BAACKL DRIVE	
MCCT6-SLP-101-01P	2"	3#1/0, 1#6G	MCC-T6	DISCHARGE PUMP 1	
HB-TC-MCP-200-01P	3"	3-250MCM, 1#2G	CENTRIFUGE 2 MOTOR STARTER PANEL	CENTRIFUGE 2 SCROLL DRIVE	
HB-TC-MCP-200-02P	1-1/2"	3#8, 1#8G	CENTRIFUGE 2 MOTOR STARTER PANEL	CENTRIFUGE 2 BAACKL DRIVE	
MCCT6-SLP-201-01P	2"	3#1/0, 1#6G	MCC-T6	DISCHARGE PUMP 2	
MCCT6-SLP-100-01P	1-1/2"	3#2, 1#8G	MCC-T6	THICKENED FEED PUMP 1	
MCCT6-MRT-100-01P	1-1/2"	3#8, 1#8G	MCC-T6	MACERATOR 1 CONTROL PANEL	
MCCT6-SLP-200-01P	1-1/2"	3#2, 1#8G	MCC-T6	THICKENED FEED PUMP 2	
MCCT6-MRT-200-01P	1-1/2"	3#8, 1#8G	MCC-T6	MACERATOR 2 CONTROL PANEL	
LPT5-PV-TC01-011-01P	1"	3#10, 1#10G	LP-T5	SOLIDS FEED PLUG VALVE ACTUATOR 1	
LPT5-PV-TC01-021-01P	1"	3#10, 1#10G	LP-T5	SOLIDS FEED PLUG VALVE ACTUATOR 2	
LPT5-PV-TC01-031-01P	1"	3#10, 1#10G	LP-T5	SOLIDS FEED PLUG VALVE ACTUATOR 3	
LPT5-PV-TC01-041-01P	1"	3#10, 1#10G	LP-T5	SOLIDS FEED PLUG VALVE ACTUATOR 4	
LPT5-PV-TC01-051-01P	1"	3#10, 1#10G	LP-T5	SOLIDS FEED PLUG VALVE ACTUATOR 5	
MCCT6-OL1-01P	1"	3#10, 1#10G	MCC-T6	OIL LUBE SYSTEM 1	
MCCT6-OL2-01P	1"	3#10, 1#10G	MCC-T6	OIL LUBE SYSTEM 2	
LPT5-100-01P	1"	3#10	LP-T5	FIT-TC01-03A1, AIT-TC01-100, AIT-TC01-101	
LPT5-100-02P	1"	3#10	LP-T5	UIT-TC01-101, CENTRIFUGE 1 LOP/OIU	
LPT5-200-01P	1"	3#10	LP-T5	FIT-TC01-03A2, AIT-TC01-200, AIT-TC01-101	
LPT5-200-02P	1"	3#10	LP-T5	UIT-TC01-201, CENTRIFUGE 2 LOP/OIU	
HB-TC-EPC-100-01P	1-1/2"	3#8, 1#8G	HB-TC-MCP-100	EASY POND 1 CONTROL PANEL	
HB-TC-EPC-200-01P	1-1/2"	3#8, 1#8G	HB-TC-MCP-200	EASY POND 2 CONTROL PANEL	
HB-LS-01C	1"	2#14 + G	LPTU-1	EXISTING LIFT STATION CONTROL PANEL	
HB-LS-02C	1"	5-2#16 TSP + G	LPTU-1	EXISTING LIFT STATION CONTROL PANEL	
LCP-100-MJB1-C120	2"	36#14 + G	CETRIFUGE 1 LOCAL CONTROL PANEL	MACERATOR 1 JUNCTION BOX (120V)	
LCP-100-SJB1-CmA	2"	5-2#16 TSP + G	CETRIFUGE 1 LOCAL CONTROL PANEL	SOLIDS DENSITY METER JUNCTION BOX (ANALOG)	
LCP-100-OJB1-C120	2"	20#14 + G	CETRIFUGE 1 LOCAL CONTROL PANEL	OLL LUBE SYSTEM JUNCTION BOX (120V)	
LCP-100-EJB1-C120	2"	8#14 + G	CETRIFUGE 1 LOCAL CONTROL PANEL	EASY POND 1 JUNCTION BOX (120V)	
LCP-100-EJB1-C24	2"	8#14 + G	CETRIFUGE 1 LOCAL CONTROL PANEL	EASY POND 1 JUNCTION BOX (24V)	
LCP-100-DJB1-C120	2"	8#14 + G	CETRIFUGE 1 LOCAL CONTROL PANEL	DISCHARGE 1 JUNCTION BOX (120V)	
LCP-100-DJB1-CmA	2"	2-#16 TRIAD + G, 2#16 TSP + G,	CETRIFUGE 1 LOCAL CONTROL PANEL	DISCHARGE 1 JUNCTION BOX (ANALOG)	
LCP-100-CJB1-CmA	2"	4-#16 TRIAD SH + G, 2#16 TSP + G	CETRIFUGE 1 LOCAL CONTROL PANEL	CENTRIFUGE 1 JUNCTION BOX (ANALOG)	
LCP-100-CJB1-C120	2"	20#14 + G	CETRIFUGE 1 LOCAL CONTROL PANEL	CENTRIFUGE 1 JUNCTION BOX (120V)	
LCP-100-CJB1-C24	2"	12#14 + G	CETRIFUGE 1 LOCAL CONTROL PANEL	CENTRIFUGE 1 JUNCTION BOX (24V)	
LCP-100-C6/B1	2"	3 CAT6	CETRIFUGE 1 LOCAL CONTROL PANEL	CENTRIFUGE 1 JUNCTION BOX (CAT6)	
LCP-200-MJB1-C120	2"	36#14 + G	CETRIFUGE 2 LOCAL CONTROL PANEL	MACERATOR 2 JUNCTION BOX (120V)	
LCP-200-SJB1-CmA	2"	5-2#16 TSP + G	CETRIFUGE 2 LOCAL CONTROL PANEL	SOLIDS DENSITY METER JUNCTION BOX (ANALOG)	
LCP-200-OJB1-C120	2"	20#14 + G	CETRIFUGE 2 LOCAL CONTROL PANEL	OLL LUBE SYSTEM 2 JUNCTION BOX (120V)	
LCP-200-EJB1-C24	2"	8#14 + G	CETRIFUGE 2 LOCAL CONTROL PANEL	EASY POND 2 JUNCTION BOX (24V)	
LCP-200-EJB1-C120	2"	8#14 + G	CETRIFUGE 2 LOCAL CONTROL PANEL	EASY POND 2 JUNCTION BOX (120V)	
LCP-200-DJB1-C120	2"	8#14 + G	CETRIFUGE 2 LOCAL CONTROL PANEL	DISCHARGE 2 JUNCTION BOX (120V)	
LCP-200-DJB1-CmA	2"	2-#16 TRIAD + G, 2#16 TSP + G,	CETRIFUGE 2 LOCAL CONTROL PANEL	DISCHARGE 2 JUNCTION BOX (ANALOG)	
LCP-200-CJB1-CmA	2"	4-#16 TRIAD SH + G, 2#16 TSP + G	CETRIFUGE 2 LOCAL CONTROL PANEL	CENTRIFUGE 2 JUNCTION BOX (ANALOG)	
LCP-200-CJB1-C120	2"	20#14 + G	CETRIFUGE 2 LOCAL CONTROL PANEL	CENTRIFUGE 2 JUNCTION BOX (120V)	
LCP-200-CJB1-C24	2"	12#14 + G	CETRIFUGE 2 LOCAL CONTROL PANEL	CENTRIFUGE 2 JUNCTION BOX (24V)	
LCP-200-C6/B1	2"	3 CAT6	CETRIFUGE 2 LOCAL CONTROL PANEL	CENTRIFUGE 2 JUNCTION BOX (CAT6)	
PV-TC01-011-01C	1"	14#14 + G	MJB1-C120	SOLIDS FEED PLUG VALVE 1 ACTUATOR	
HB-TC-MRT-100-01C	1"	16#14 + G	MJB1-C120	MACERATOR 1 CONTROL PANEL	
HB-TC-SLP-100-01C	1"	6#14 + G	MJB1-C120	THICKENEER FEED PUMP	
FIT-TC01-03A1-01C	3/4"	2#16 TSP + G	SJB1-CmA	SLUDGE FLOWMETER 1	
AIT-TC01-100-01C	3/4"	2#16 TSP + G	SJB1-CmA	SLUDGE DENSITY METER 1	
FIT-TC01-04A1-01C	3/4"	2#16 TSP + G	SJB1-CmA	POLYMER FEED FLOWMETER 1	
FSL-TC01-011-01C	3/4"	2#14 + G	OJB1-C120	LUBE UNIT 1 FEED END FLOW	
FSL-TC01-012-01C	3/4"	2#14 + G	OJB1-C120	LUBE UNIT 1 EASY POND FLOW	
FSL-TC01-013-01C	3/4"	2#14 + G	OJB1-C120	LUBE UNIT 1 DRIVE END FLOW	
PMP-TC01-011-01C	1"	12#14 + G	OJB1-C120	LUBE PUMP 1	
PSH-TC01-012-01C	3/4"	2#14 + G	OJB1-C120	LUBE UNIT 1 PRESSURE	
PSH-TC01-013-01C	3/4"	2#14 + G	OJB1-C120	LUBE UNIT 1 FILTER PRESSURE	
SV-TC01-011-01C	3/4"	2#14 + G	OJB1-C120	CENTRIFUGE 1 BEARING LUBE COOLING SOLENOID VALVE	

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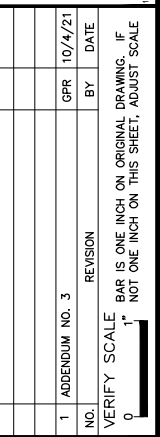
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- CP&Y**
CP&Y, INC.
TYPE FIRM REGISTRATION N
#F-1741



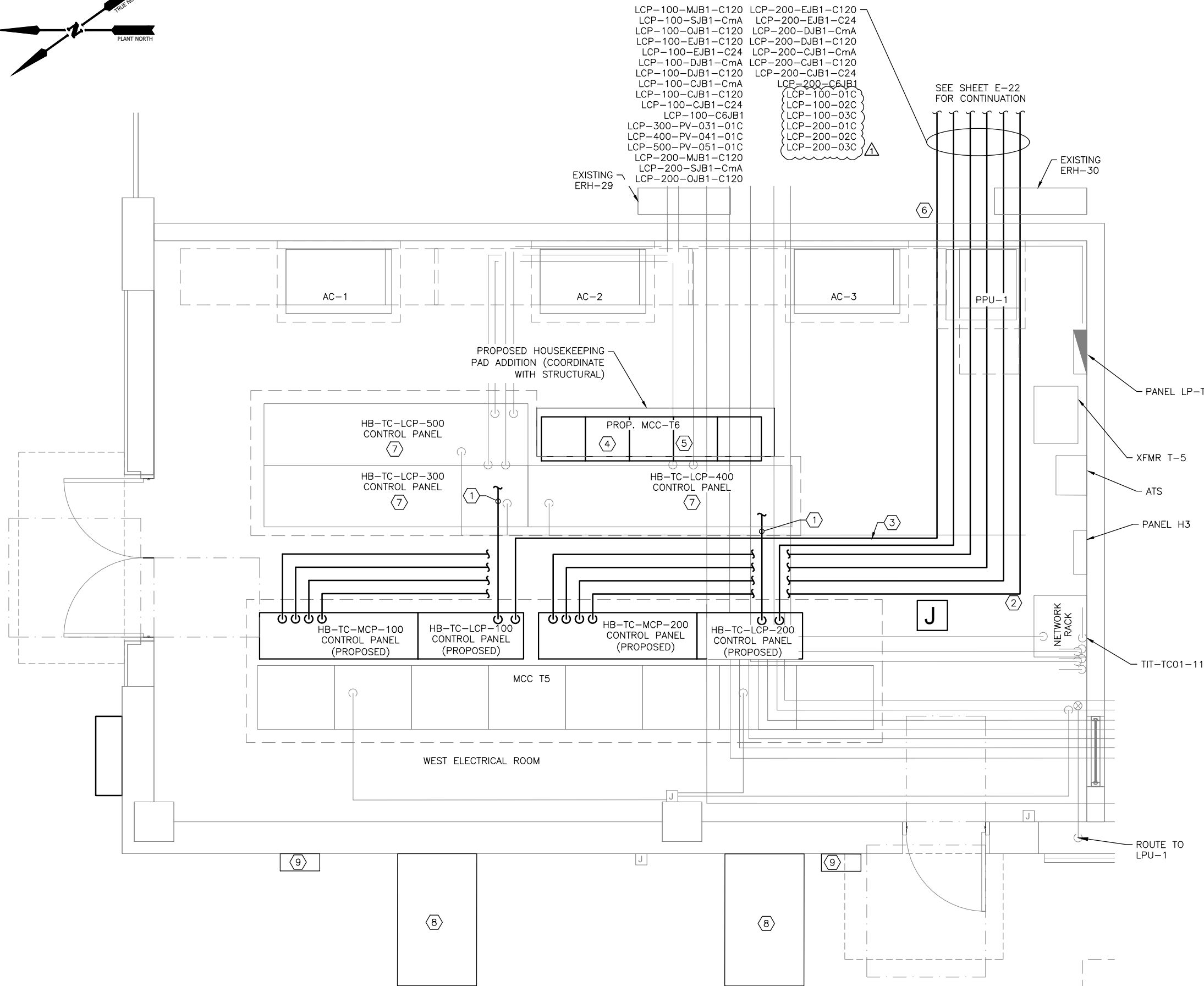
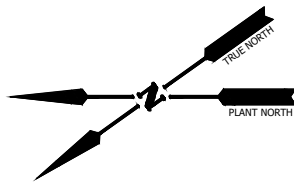
VERIFY SCALE

Date:	MAY 2021
Designed:	D. BARNES
Drawn:	G.LEUENBERGER
Reviewed:	G.ROBINSON, P.E.
CP&Y Proj. AUST1600646.01	

[illegible]

Date:	MAY 2021
Designed:	D. BARNES
Drawn:	G. LEUENBERGER
Reviewed:	G. ROBINSON, P.E.
CP&Y Proj. AUST1600646.01	

REFERENCES: AUST1600646.01_Border_Base.dwg _S14_ENVISO_SEALS.dwg AUST1600646.01_E_Elec-Room.dwg 14010--purch.dwg AUST1600646.01_E_HBase.dwg AUST1600646.01_E_Elec-Base
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WEST ELECTRICAL ROOM CONTROL PLAN



NOTES BY SYMBOL (X)

1. INSTALL (1) CAT 6 CONDUCTOR IN 1" C FROM LCP TO NETWORK SWITCH.
2. ROUTE/INSTALL CONDUITS ONTO EXISTING CONDUIT SYSTEM. TAKE CARE NOT TO OBSTRUCT EXISTING CONDULETS, BOXES AND PULL POINTS. MODIFY/WIDEN CONDUIT RACK AS REQUIRED.
3. ALL CONDUITS, UNLESS NOTED OTHERWISE, SHALL EXIT THE ELECTRICAL ROOM THROUGH THE EAST WALL. CORE DRILL THROUGH THE WALL AS REQUIRED. CORE DRILLING AND/CUTTING THROUGH CONTROL JOINTS AND THE CONCRETE CEILING IS PROHIBITED. SEAL PENETRATIONS WITH A UL LISTED FIRE-STOPPING COMPOUND.
4. INSTALL THE FOLLOWING BETWEEN MCC-T6 BUCKETS AND HB-TC-LCP-100:
-HB-TC-SLP-100-VFD: 12#14, 1" C, (4)2#16 TSP, 1" C
-HB-TC-MRT-100: 12#14, 1" C
-HB-TC-SLP-101 VFD: 12#14, 1" C, (4)2#16 TSP, 1" C
-FUTURE POLYMER FEED PUMP #1 VFD: 12#14, 1" C, (4)2#16 TSP, 1" C
5. INSTALL THE FOLLOWING BETWEEN MCC-T6 BUCKETS AND HB-TC-LCP-200:
-HB-TC-SLP-200-VFD: 12#14, 1" C, (4)2#16 TSP, 1" C
-HB-TC-MRT-200: 12#14, 1" C
-HB-TC-SLP-201 VFD: 12#14, 1" C, (4)2#16 TSP, 1" C
-FUTURE POLYMER FEED PUMP #2 VFD: 12#14, 1" C, (4)2#16 TSP, 1" C
6. ALL CONDUITS, UNLESS NOTED OTHERWISE, SHALL EXIT THE ELECTRICAL ROOM THROUGH THE EAST WALL. CORE DRILL THROUGH WALL AS REQUIRED. CORE DRILLING AND CUTTING THROUGH CONTROL JOINTS AND THE CONCRETE CEILING IS PROHIBITED. SEAL PENETRATIONS WITH A UL LISTED FIRE-STOPPING COMPOUND.
7. INSTALL CONTROL CONDUCTORS FROM LCP TO PLUG VALVE. 14#14+G IN 1" C, LCP-X00-PV-0X1-01C, WHERE "X" DENOTES PROCESS TRAIN NUMBER 1 THROUGH 5.
8. PROPOSED CUSTOM SQUARE D QED2 SWITCHBOARD WITH 2500A RF DRAW OUT CIRCUIT BREAKER. BREAKER TO MATCH EXISTING IN MCC-T5. NEMA 4X STAINLESS STEEL CONSTRUCTION. BOTTOM ENTRY, SIDE ACCESS PANELS, SINGLE SECTION, 38"WX60"D (TYP. OF 2). SWITCHBOARDS SHALL SERVE AS THE BUILDING'S NEW SERVICE ENTRANCES. GROUND PER THE NEC AND AUSTIN ENERGY REQUIREMENTS.
9. EXISTING WALL-MOUNTED JUNCTION BOX. INSTALL 10-4" C BETWEEN JUNCTION BOX AND ADJACENT SWITCHBOARD (8).

GENERAL NOTES

1. REFER TO STRUCTURAL AND HVAC SHEETS FOR ADDITIONAL INFORMATION.
2. DO NOT COMBINE DIGITAL AND ANALOG SIGNALS. SIGNALS TO HAVE SEPARATE J-BOXES AND CONDUIT RUNS.
3. INTERCONNECTION CONDUITS AND CONDUCTORS WITHIN WEST ELECTRICAL ROOM ARE NOT SHOWN BUT ARE REQUIRED. REFER TO SHEET E-30 THRU E-38 FOR WIRING BETWEEN LCPs, MCPs AND MCC-T6. COORDINATE WITH PROCESS EQUIPMENT VENDOR. PROVIDE CONTROL WIRES AS REQUIRED.
4. THIS IS AN ACTIVE FACILITY THAT MUST MAINTAIN OPERATION. PROTECT ELECTRICAL AND CONTROL EQUIPMENT DURING ALL CONSTRUCTION ACTIVITIES FROM DUST AND DEBRIS.
5. ALL CONDUITS ENTERING CLIMATE CONTROLLED ELECTRICAL ROOMS SHALL HAVE CONDUIT SEALS ON NON-CLIMATE CONTROLLED SIDE. INSTALL UL-LISTED POURED SEALS TO ALL CONDUIT ENTERING/EXITING FIELD CONTROL PANELS.



CP&Y, INC.
TYPE FIRM REGISTRATION NO. #1741



NO.	REVISION	BY	DATE
1	ADDENDUM NO. 3	GPR	10/4/21

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE.

CITY OF AUSTIN - AUSTIN WATER
HORNSBY BEND BMP CENTRIFUGES

WEST ELECTRICAL ROOM
CONTROL PLAN

Date:	MAY 2021
Designed:	D. BARNES
Drawn:	G. LEUNENBERGER
Reviewed:	G. ROBINSON, P.E.
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SHEET
E-25